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	AS	1	Adams, M.D. (1992)	et al., "Sequer	nce identification of 2,375	human brain	n genes," <i>Kature</i>	355:632-634
	AT	1	Aggarwal, B Eur Cytokii	_B, and K. Nata na Natw. 7(2):93	rajan, "Tumor necrosis fact -124 (April-June 1996)	tars: Develo	pments during th	ne last decade,"
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	AS	12	Loetscher, Receptor,"	n. et al , "Notec Cell El:351-359 (cular Cloning and Expression of (1990)	the Human S	5 kd Tumor Ne	ecrosis Factor
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	AS	14	Nakagawa, T PC6, a Kex2	. et al., "Identi -like processing	ification of an isoform with an endoprotease," FEBS Letter 327:	extremely l 165-171 (194	arge Cys-ric 93)	ı region of	
	AT	14	type 1 TNF-	R, cloned using a	forms of tumor necrosis factor amino acid sequence data of its of the receptor," <i>EMBO J. 9(10)</i> :	soluble for	m, encodes b	s cDNA for the oth the celi	
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	S A	<u>15</u>	Piguet, P.F. et a?, "Evolution of collagen arthritis in mice is arrested by treatment with anti- tumor necrosis factor (TNF) antibody or a recombinant soluble TNF receptor," Immunol 77:510-514 (1992)							
	ΤA	15	Pallok, K.E	.eta), "Induci	ible T Cell Antigen 4-188," J	Imunol 150	(3):771-781 (1993)		
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	AS	17	Schall, T.J. et a), "Molecular Cloning and Expression of a Receptor for Human Tumor Nucrosi Factor," Cell 61:361-370 (1990)							
	AT	17	Screaton, (5. et al , "LARD: e pre-mRNA splici	: A new lymphoid-specific ing," <i>Proc. Natl. Acad. Sc</i>	death domain	n contai 15-4619	ning recept (April 1997	or regulated by	
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	AS	<u>20</u>	Tartaglia, 74:845-853	L.A. et a? , "A (1993)	Novel Domain within the 55 kd	INF Receptor	Signals Cell	peath," Cell
	AT	<u>20</u>	Torcia, M.	et al , "Nerve (s," Cell 85:345-3	Growth Factor Is an Autocrine 9 356 (1996)	urvival Fact	or tor Hemory	8
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	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc.		T
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			APPLICANT	First Named Inventor	Guo-Liang Yu		
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neet	2	of	4	Attorney Docket Number	PF267D1		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	1
isnımax Sladın	Cité No '	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	BB	Arend et al. "Binding of II-1α, IL-1β, and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Lyeles of Soluble IL-1 Receptors in Synovial Fluids," J. Immunol. 153:4766-4774 (1994)	
	вс	Ashkenazi, A. et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin," Proc. Natl. Acad. Sci. USA 88:10535-10539 (1991)	
	BD	Beutler, B., and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," <i>Ann. Rev. Biochem.</i> 57:505-518 (1988)	
	BE	Boldin, M.P. et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," J. Biol. Chem. 270:7795-7798 (April 1995)	
	BF	Boldin, M.P. et al., "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death," <i>Cell</i> 85.803-815 (June 1996)	
	BG.	Caliceti, P., et al., "Biopharmaceutical Properties of Uricase Conjugated to Neutral and Amphiphilic Polymers," <i>Bioconjugate Chem.</i> 10:638-646 (August 1999)	
	Вн	Chinnaiyan, A.M. et al., "FADD, a Novel Death Domain-Containing Protein, Interacts with the Death Domain of Fas and Initiates Apoptosis," Call 81:505-512 (May 1995)	
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	BJ	Corti, A. et al., "Identification of an Epitope of Tumor Necrosis Factor (TNF)-Receptor Type 1 (p55) Recognized by a TNF-q-Antagonist Monoclonal Antibody," Lymphokine Cytokine Res. 13:183-190 (June 1994)	
	BK	Delgado, C., et al., "The Uses and Properties of PEG-Linked Proteins," Clin. Rev Ther. Drug Carrier Systems 9:249-304 (1992)	
	BL	Deng, B., et al., "An Agonist Murine Monoclonal Antibody to the Human c-Mpl Receptor Stimulates Megakaryocytopolesis," Blood 92:1981-1988 (September 1998)	
	ВМ	Fiers, W., "Tumor necrosis factor," FEBS Lett. 285.199-212 (1991)	
	BN	Francis, G.E. et al., "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimisation of coupling techniques," <i>Intl. J. Hematol.</i> 68:1-18 (July 1998)	

^{*}EXAMINER, Initial it reference considered, whether or not citation is in conjuntance with MPEP 609. Draw line through citation if not in conjuntance and not considered, include copy of this form with next communication to applicant

Examiner	Date	
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11	IFORMATIO	N DIS	SCLOSURE	Filing Date	June 16, 1999	
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				Art Unit	1646	
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the annotation when appropriate), title of the	
uigala uigala uigala	Cite No 1	item (book, magazine, journal, awaii, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	₹³
	BO	Fu, M L.X. et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α ₁ -adrenergic receptor," Clin. Exp. Immunol. 97:146-151 (July 1994)	
	BP	Goeddel, D.V. et al., "Tumor Necrosis Factors. Gene Structure and Biological Activities," Cold Spring Harbor Symp. Quant. Biol. LI:597-609 (1986)	
	BQ	Hahne, M., et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family, Stimulates Tumor Cell Growth," J. Exp. Med. 188:1185-1190 (September 1998)	
	BR	Hsu, H et al., "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF-kB Activation," Cell 81:495-504 (May 1995)	
	BS	Hsu, H et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," Cell 84:299-308 (January 1996)	
	ВТ	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," Immunity 4:387-396 (April 1996)	
	BU	Hughes, D.P M and Crispe, I N, "A Naturally Occurring Soluble Isoform of Murine Fas Generated by Alternative Splicing," <i>J. Exp. Med.</i> 182:1395-1401 (November 1995)	
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	BW	Malik, F., et al., "Polyethylene Glycol (PEG)-modified Granulocyte-Macrophage Colony-stimulating Factor (GM-CSF) with Conserved Biological Activity," Exp. Hematol 20:1028-1035 (1992)	
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	BZ_	Rothe, M. et al., "TRAF2-Mediated Activation of NF-kB by TNF Receptor 2 and CD40," Science 269:1424-1427 (September 1995)	
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
€∡amıner Initials	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magezine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue humper(s), pupiliner, city and/or country where published	T*
	СВ	Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor." Cell 73:213-216 (1993)	
	cc	Tewari, M. and Dixit, V.M., "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus <i>crmA</i> Gene Product," <i>J. Biol. Chem.</i> 270:3255-3260 (February 1995)	
	CD	Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," Nucleosides & Nucleotides 18:2745-2750 (November-December 1999)	
	CE	Yoon, S.T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can Have Agonist or Antagonist Activity," <i>Immunity</i> 1:563-569 (October 1994)	

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E	<u>~~</u>	AA	5,349,052	09/20/1994	Delgado et al.			
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1	AF	EP 0 401 384 B1	12/12/1990	Kırın-Amgen, Inc.		Г
2	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc.		Τ-
8	AH	WO 96/26736	09/06/1996	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy		
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	AM	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.		
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7	AP	WO 98/07880	02/26/1998	Human Genome Sciences, Inc.		┢
1/	ĀQ	WO 98/14565	04/09/1998	Immunex Corporation		╁╌
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	AU	WO 98/32466	07/30/1998	Polymasc Pharmaceuticals PLC		\vdash
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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2/	BD	Beutier, B and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," Ann. Rev. Biochem. 57 505-518 (1988)	
	BE	Boldin, M.P. et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," J. Biol. Chem. 270 7795-7798 (April 1995)	
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	Вн	Chinnaiyan, A.M. et al., "FADD, a Novel Death Domain-Containing Protein, Interacts with the Death Domain of Fas and Initiates Apoptosis," Cell 81.505-512 (May 1995)	
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6	₿O	Fu, M L.X. et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α ₁ -agreening receptor." Clin Exp. Immunol. 97 146-151 (July 1994)	
	BP	Goeddel, D.V. et al., "Turnor Necrosis Factors: Gene Structure and Biological Activities," Cold Spring Harbor Symp. Quant. Biol. Lr.597-609 (1986)	
V	BQ	Hanne, M. et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family. Stimulates Tumor Cell Growth," J. Exp. Med. 188,1185-1190 (September 1998)	
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2	BS .	Hsu, H at al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," Cell 84:299-308 (January 1996)	
2	BT	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," <i>Immunity</i> 4 387-396 (April 1996)	
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V	B∨	Kischkel, F.C. et al., "Cytotoxicity-dependent APO-1 (Fas/CD95)-associated proteins form a death-inducing signaling complex (DISC) with the receptor," <i>EMBO J.</i> 14.5579-5588 (November 1995)	
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2	СВ	Tartaglia, L. A. et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor," Cell 73:213-216 (1993)	
D	eć	Tewari, M. and Dixit, V.M. "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus crma Gene Product," J. Biol. Chem. 270:3255-3260 (February 1995)	
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